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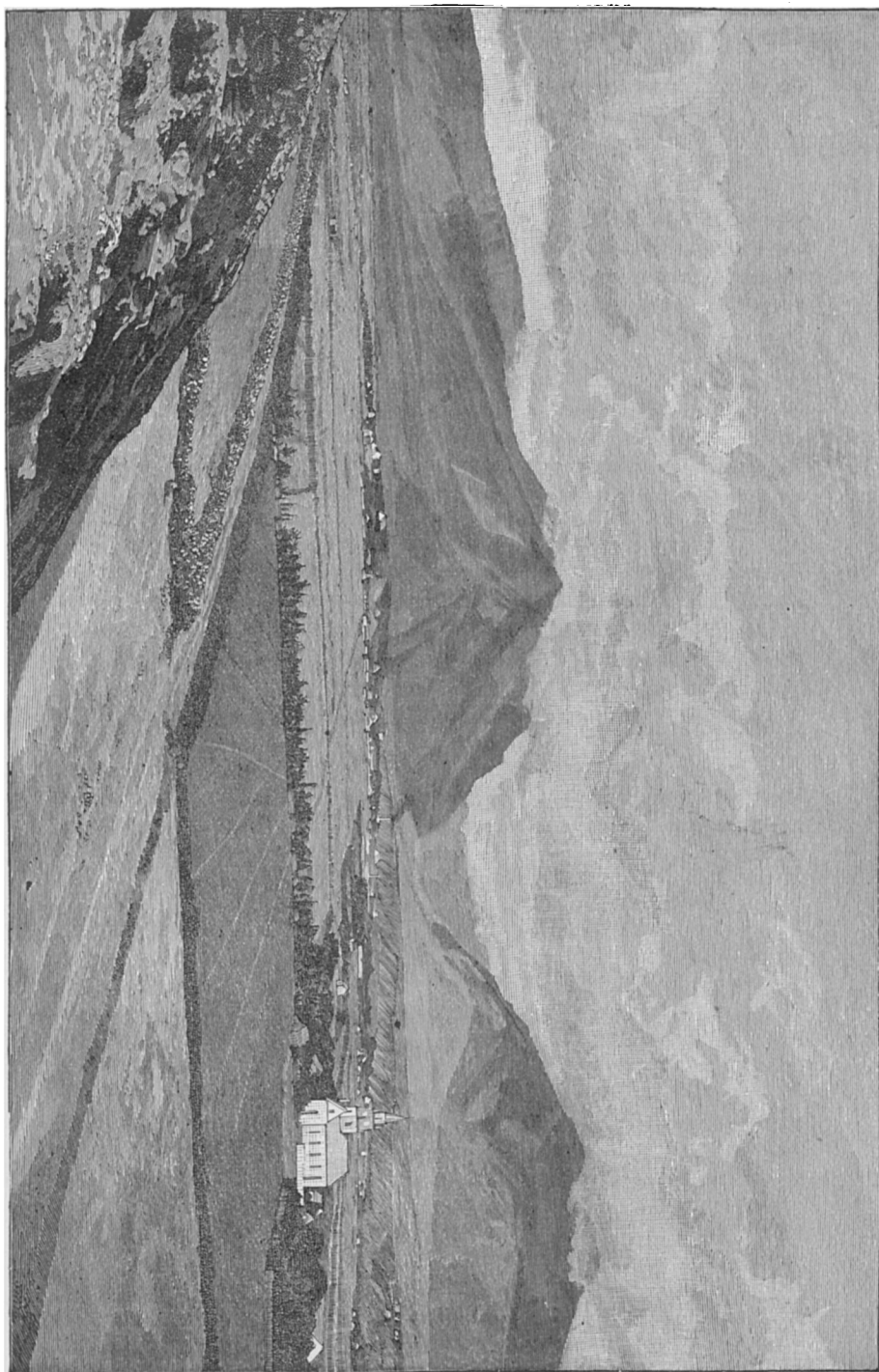
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Wailuku—Maui

THE FOURTH ANNUAL REPORT OF THE U. S. GEOLOGICAL SURVEY.—Besides the usual reports showing the progress in the survey by the different members, the body of the volume is filled by the following memoirs: Hawaiian volcanoes, by Capt. C. E. Dutton; Abstract of report on the mining geology of the Eureka district, Nevada, by J. S. Curtis; Popular fallacies regarding the precious metal ore deposits, by A. Williams, Jr.; A review of the fossil *Ostreidæ* of North America, by Dr. C. A. White; A geological reconnaissance in Southern Oregon, by I. C. Russell.

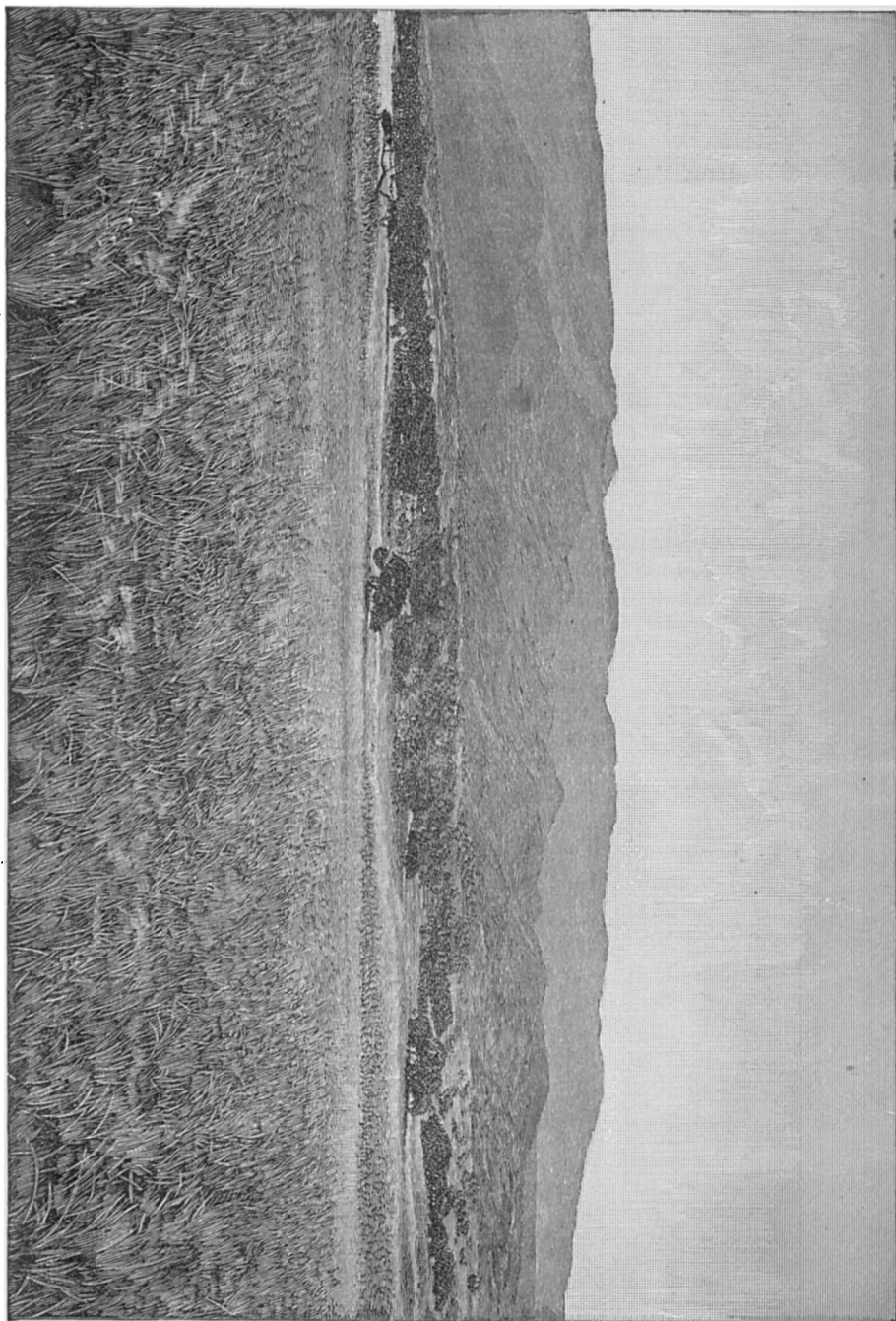
Having already called attention to Dr. White's valuable essay, we would briefly notice Capt. Dutton's elaborate account of the volcanoes of the Hawaiian islands. Besides detailed descriptions, accompanied by excellent illustrations and maps, of Kilauea and Mauna Loa, the author also describes Mauna Kea and the old extinct volcano of Kohala and the lava fields of Hualalai.

The descriptions of the mountains and lava streams and beds are careful and the facts presented will be important to the student of vulcanism. The author does not regard Kilauea as a crater, but considers the depression in that mountain, which he designates a *caldera*, as due to the "dropping of a block of the mountain crust which once covered a reservoir of lava, this reservoir being tapped and drained by eruptions occurring at much lower levels."

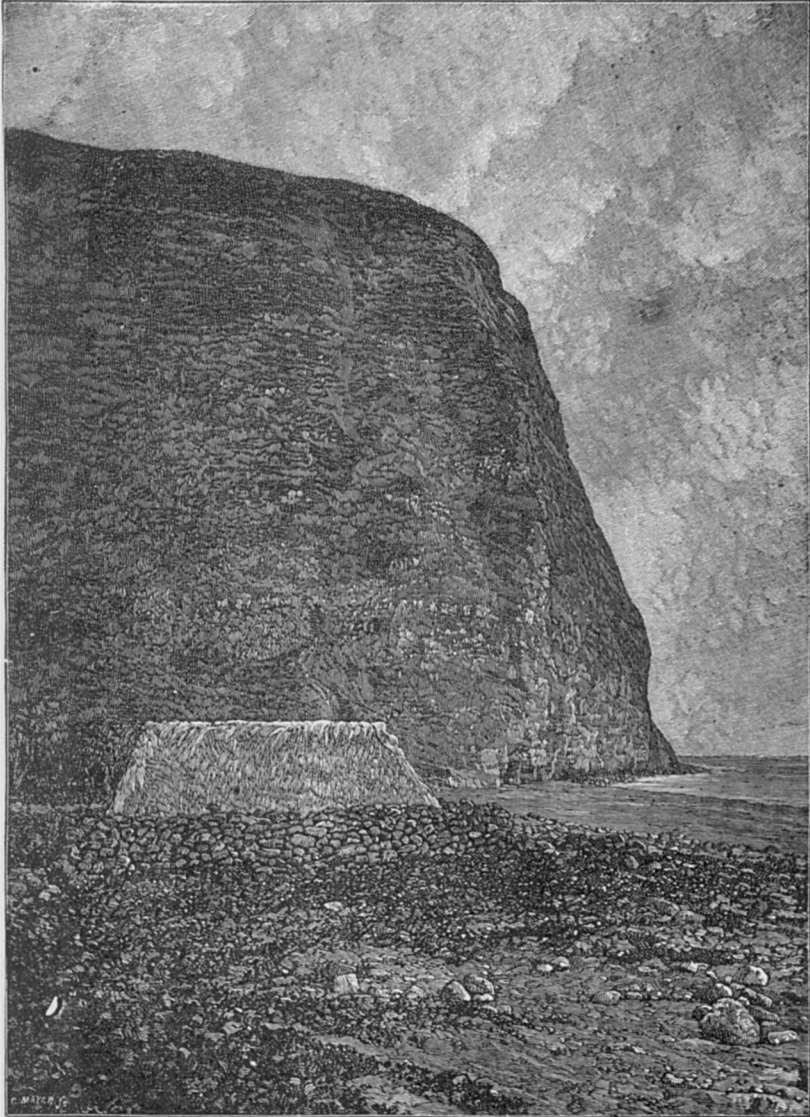
Acknowledging that volcanic action and regional uplifting are really associated phenomena, the author states that the cause is mysterious, the attempted solutions not standing criticism, though suggesting that the effects are due to expansion of the earth's crust in the region involved.

The three plates which we are allowed to reproduce from this volume, will convey some idea of the grandeur and beauty of this volcanic region.

THE ZOOLOGICAL RECORD FOR 1884.—This volume appeared promptly, our notice of it having been delayed. It forms the twenty-first volume of the series, and like its predecessors it is indispensable to all workers in systematic zoölogy, and it is to be hoped that its future publication will be maintained even though heavy sacrifices be made. While members of the Zoölogical Record Association and subscribers receive the volume for £1, the volume is issued to the public at £1 10s. The undertaking is partly supported by a grant of one hundred and fifty pounds from the Government Grant Committee of the Royal Society, and of one hundred pounds from the British Association, but still more subscribers are needed. The Record is now edited by Professor F. Jeffrey Bell, and there has been a number of changes in the list of assistant editors. We regret to notice that Professor E. von Martens, from the first the recorder of Mollusca and Crustacea, has been obliged to resign. His place is taken by



Mauna Kea from the South.



Cliffs on the windward coast of Hawaii.